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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,932	02/23/2004	Young Un Bang	8733.078.20-US	7678
30827	7590	04/26/2005	EXAMINER	
MCKENNA LONG & ALDRIDGE LLP			CHANG, YEAN HSI	
1900 K STREET, NW			ART UNIT	
WASHINGTON, DC 20006			PAPER NUMBER	

2835

DATE MAILED: 04/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/782,932

Applicant(s)

BANG, YOUNG UN

Examiner

Yean-Hsi Chang

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 14 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-39 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Terminal Disclaimer***

1. The terminal disclaimer filed on Apr. 14, 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 6,721,174 B2 has been reviewed and is accepted. The terminal disclaimer has been recorded.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-2, 11, 21-24 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herron et al. (US 5,196,993) in view of Lewis et al. (US 5,422,751).

Herron teaches a liquid crystal display apparatus (14, fig. 3) comprising: a liquid crystal display module (72) for displaying picture data, an enclosure (70) loaded with the liquid crystal display module for surrounding the side surface and the rear surface of the liquid crystal display module (figs. 6 and 7), and a case (68) secured to the enclosure and the liquid crystal display module (fig. 3), said case being made from Aluminum (see

col. 5, lines 1-4) to protect the periphery of a display area (fig. 3) in the liquid crystal display module (claims 1, 11, 21-22 and 24); and wherein said case is electrically connected to a frame (76) of the liquid crystal display module (element 78 being considered as part of the frame) (claims 2, 23 and 37).

Herron fails to teach the LCD module having a metal frame.

Lewis teaches a LCD apparatus (50, fig. 5) comprising a LCD module (66) having a metal frame (69) for purposes of thinner, lighter and more rigid.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Herron with the LCD module taught by Lewis for purposes of thinner, lighter and more rigid.

4. Claims 3-7, 15-16, 20, 28-32, 36 and 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herron et al. in view of Lewis et al.

Herron teaches a portable information processing apparatus (10, fig. 1) comprising: a main body (12) having an interfacing device (140), a display apparatus (14) mechanically coupled to the main body (fig. 1) for displaying picture data received from the main body, said display apparatus having a liquid crystal display module (14) for displaying picture data, an enclosure (70) loaded with the liquid crystal display module for surrounding the side surface and the rear surface of the liquid crystal display module (figs. 6 and 7), and a case (68) secured to the enclosure and the liquid crystal display module (fig. 3), said front case being made from aluminum (see col. 5, lines 1-4) to protect the periphery of a display area in the liquid crystal display module (claims 3,

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5, 15, 20, 28 and 32); and wherein said case is electrically connected to a frame (76) of the liquid crystal display module (element 78 being considered as part of the frame) (claims 4, 31, 36 and 38-39); a hinge (104) coupled to the main body, wherein the display apparatus is mechanically coupled to the main body through the hinge (fig. 3) (claims 5-6, 16 and 29); and wherein the liquid crystal display module, the hinge arm, and the enclosure are commonly secure (see fig. 16) (claims 7 and 30).

Herron fails to teach the LCD module having a metal frame.

Lewis teaches a LCD apparatus (50, fig. 5) comprising a LCD module (66) having a metal frame (69) for purposes of thinner, lighter and more rigid.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Herron with the LCD module taught by Lewis for purposes of thinner, lighter and more rigid.

5. Claims 8-10, 12-14, 17-19, 25-27 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herron et al. in view of Lewis et al.

Herron in view of Lewis discloses the claimed invention except indicating the case having a thickness of about 0.5-0.7 mm, or less than about 1.2 mm, or about 0.5 mm. It would have been an obvious matter to one having ordinary skill in the art at the time the invention was made to select a thickness of the case either of about 0.5-0.7 mm, less than 1.2 mm, or about 0.5 mm, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as

being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

### ***Response to Arguments***

6. Applicant's arguments with respect to claims 1, 3, 5, 21 and 28 are have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

***Correspondence***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (571) 272-2038. The examiner can normally be reached on 08:00 - 16:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the Art Unit phone number is (571) 272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)..

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8558.

Yean-Hsi Chang  
Primary Examiner  
Art Unit: 2835  
April 24, 2005

  
**YEAN-HSI CHANG**  
**PRIMARY EXAMINER**